## MODELS: Fairchild 24J (Army UC-618) and 24 JS, 4 PCL-SM

104. 8 in. streamline tail wheel with heavy

## T.C. NUMBER: 663

## I - Specifications Pertinent to All Models:

Warner Super Scarab Series 50 or 50% (See Item 22%) Warner Super Scarab Series 50 or 50% (See Item : For all operations: 2050 rpm (145 hp).
Level flight or climb - 137 mph True Ind.
Glide or dive - 185 mph True Ind.
Flaps extended - 94 mph True Ind.
40 gallons (two tanks, 20 gallons in each wing) (+24)
3 gallons (-19)
3 (one front +20, two rear +50)
170 lbs. (140 lbs. aft of cabin, 30 lbs. under rear seat) Placard limits Placard speeds (See Item 229) Fuel capacity Oil capacity No. passengers rear seat) Type Certificate No. 663 Certification basis 3400 and up manufactured prior to 4/27/43, and all AAF Nos. eligible. Approval expired as of 4/27/43. Serial Nos. EQUIPMENT: (Datum is wing leading edge) (\* Means net increase) Class I: Class 1:

A. Landplane
101. Starter (Eclipse Y-150)
102. Battery (Exide 6TS-7-1) in engine compartment
103. 6.50-10 wheels (Warner 3270) with brakes and tires 13 lbs. (-24)25 lbs. (-18)

55 lbs.

(-1)

```
duty 6-ply tire (Wheel must be placarded
                                                                          (+206)
           for this size tire.)
                                                          29 lbs.
                                                                          (-37)
    105. Engine ring cowl
    106. Hub streamlines
                                                           4 lbs.
                                                                          (0)
                                                                          (-52)
    107. Propeller - wood (fixed pitch)
                                                          31 lbs.
           (See Item 228)
    Seaplane: Items 101, 102, 105, 107, and 208
    PLUS
    151. Edo Model 45-2880 floats and water
           rudders
                                                           5 1bs.
                                                                          (+197)
    152.
          Seaplane fin
Class II:
A. Landplane
    200. Miscellaneous items as noted in approved
           weight and balance report.
    201. Parachute front seats
           (a) Irvin
(b) Switlik)
                                                          35 lbs.
                                                                          (+28)
                                                          30 lbs.
                                                                          (+28)
          Flares - three 1-1/2 minute
                                                          20 lbs.
                                                                          (+46)
    202.
          Battery (Exide 6-TS-13-1) - 38 amp
                                                          11 lbs.*
                                                                          (-19)
    203.
                                                           4 lbs.
                                                                          (+27)
    204.
          Bonding
           (a) Metalizing and corrosion proofing (b) Corrosion proofing
                                                          12 lbs.
                                                                          (+39)
    205.
                                                          8 lbs.
                                                                          (+39)
                                                                          (-38)
    206.
          Engine shielding
                                                           6 lbs.
    207. Pressure fire extinguisher
                                                          20 lbs.
                                                                          (-14)
                                                         Neglect weight increase
           Seaplane fittings
    208.
    209.
           Generators
           (a) Leece-Neville 3CG-3 with control
                                                          25 lbs.
                                                                          (-27)
                 box and adapter
           (b) Bosch LE70/12 B-5 with control
                                                          17 lbs.
                                                                          (-27)
                 box and adapter
                Wind-driven (Air Associates GE-20)
                                                           8 1bs.
                                                                          (+6)
           (c)
           (a) Wheel streamlines
                                                          12 lbs.*
                                                                          (+1)
    210.
                Wheel fenders
                                                           4 lbs.*
                                                                          (+1)
           (b)
           Propellers
    211.
           (a) Fixed pitch metal (Curtiss 55511)
(b) Adj. metal (Hamilton Standard hub
                                                          19 lbs.*
                                                                          (-52)
                                                          36 lbs.*
                                                                          (-52)
                 7056H, blades 19B-1/2-16)
    212. Landing lights
           (a) One or two (Grimes ST-250)
(b) Two (Adams-Westlake A-6)
                                                         4-1/2 lbs. each (+16)
                                                           9 lbs.
                                                                          (+2)
    213. Cabin heater
                                                           6 lbs.
                                                                           (-18)
     214. Cabin ventilator
                                                           3 lbs.
                                                                           (-16)
                                                           5 lbs.*
                                                                          (-10)
     215. Dual brake controls
     216. Miscellaneous extra instruments
     217. Quick release door hinges
                                                           1 lb.
                                                                          (+7)
                                                                           (+72)
     218. Cabin dome light
                                                           1 lb.
                                                                           (+50)
                                                          39 lbs.*
     219. Flaps and controls
     220. Special upholstering
                                                           4 lbs.*
                                                                           (+37)
           Special paint
                                                           9 1bs.*
                                                                           (+45)
     221.
           Oil cooler (Harrison)
                                                          11 lbs.
                                                                           (-24)
     222.
           7.50-10 4-ply tires and tubes
Steerable tail wheel installation
                                                           6 lbs.*
                                                                           (-1)
     223.
                                                                          (+197)
                                                           2 lbs.*
     224.
           Radio equipment
     225.
                 Receiver (RCA AVR-7 Series)
                                                          34 lbs.
                                                                          (+18)
            (a)
                 (Chassis under pilot's seat)
            (b) Receiver (RCA AVR-10 Series)
                                                          11 lbs.
                                                                          (+9)
                 (Chassis at instrument panel)
            (c) Receiver (Lear R-3) and Transmitter
                 (Lear T-30)
                                                          30 lbs.
                                                                          (+10)
                 (Receiver and transmitter at
                 instrument panel - power unit under
                 front seat)
           (d) Trailing antenna (Aero. Radio)
Two wing fuel tanks, 30 gallons each
(replacing standard tanks)
                                                                          (+106)
                                                           9 lbs.
     226.
                                                          17 lbs.*
                                                                          (+24)
           Skis
            (a) Pollack P-3
(b) GS-5
            Kinner R-56 engine installation
     228.
            (See NOTE 4)
              Engine limits for all operations,
              1850 rpm (160 hp)
Propeller - fixed pitch wood with
                hub 40 lbs. (-34)
              Propeller limits - static rpm at
                maximum permissible throttle setting
                - not more than 1750 , not less
                than 1750
              Diameter - not more than 92 in., not
```

less than 89 in.
Airspeed limits:
Level flight or climb - 137 mph
True Ind.
Glide or dive - 175 mph True Ind.
Flaps extended - 94 mph True Ind.
Seaplane: Items 200 thru 207, 209, 211 thru
214, 216 thru 222, 225, 226 and 228

Class III:

- NOTE 1. Inasmuch as the lower longerons, between stations 2 and 2-3/4, of serial numbers 3400 and 3502 thru 3508 incorporate special (overstrength) tubing, the manufacturer must be contacted before these members are repaired or replaced.
- NOTE 2. Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook (4/27/43):

(a) Canada

- Landplane and Seaplane
- Skiplane not eligible. However, structure complies with Canadian ski gear requirements with a maximum ski height of 9.25 inches and with an overhand on the axle not exceeding that when wheels are installed.
- (b) All other countries except New Zealand.
- NOTE 3. In order to be eligible for night operation any UC-61 Series airplane having uncertificated position lights should have them replaced with approved types. If Air Force Type A-9 wing tip lights are installed, they may be used provided the sand-blasted surface on the inside of the cover glass is painted black.
- NOTE 4. Eligible with Kinner R-66 engine when converted by means of Kinner Installation Kit. The application for approval must be accompanied by an affidavit to the effect that the alteration has been accomplished in exact accordance with the approved drawings and instructions, and that parts and materials furnished in the kit have been used. Weight and balance should be checked after the alteration to determine that forward C.G. limit of the aircraft has not been exceeded. Upon approval of the alteration the aircraft model designation should be modified by suffixing the letter "K", e.g. Model 24J should be changed to 24JK.
- II Model 24J (Army UC-61B See NOTE 3), Designation 4 PCLM:

Propeller Maximum permissible diameter 92 inches Standard weight 2550 lbs.
C.G. limits (+16.6) and (+25.9)

III - Model 24JS, Designation 4 PCSM

Propeller Maximum permissible diameter 100 in. Standard weight 2750 lbs.
C.G. limits (+17.2) and (+25.9)